

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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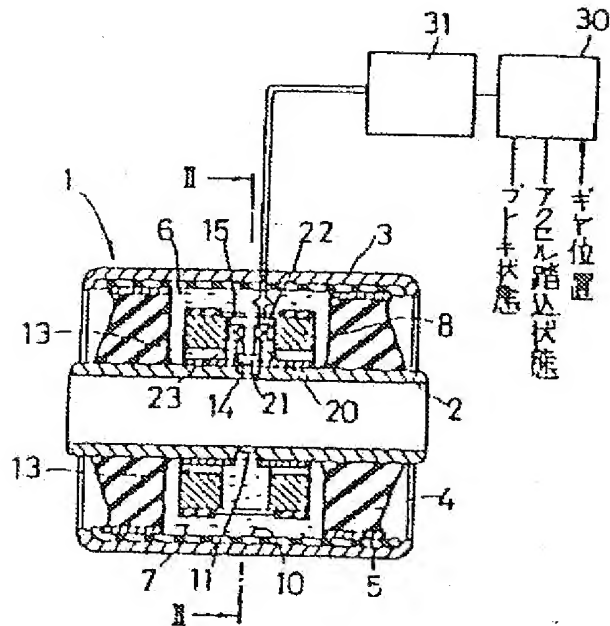
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TITLE : CYLINDRICAL BUSH FOR  
SUSPENSION DEVICE



**ABSTRACT :** **PURPOSE:** To vary the spring constant of an entire cylindrical bush and perform vibration and vibrational cutoff with good efficiency by adjusting the degree of opening of a connection path that is connected to a liquid chamber through a valve depending on the input state to the cylindrical bush.

**CONSTITUTION:** A cylindrical bush 1 for a suspension device mounts an elastic body 4 between inside and outside cylinders 2 and 3. A pair of liquid chambers 6 and 7 are oppositely provided in the elastic body 4 and a stopper base 8 is protruded in the liquid chambers 6 and 7 with a gap between the chambers and the inner circumference of the outside cylinder 3. An annular groove 11 is formed on the outer circumference of the inside cylinder 2 and a connection path 12 is comprised by covering the groove 11 with the base 8. Besides, this connection path 12 is connected to the liquid chambers 6 and 7 through the path 13 and opening 14 of the base 8 and a through hole 15 is formed at the base 8, then a valve 20 is mounted in the through path 15. The connection path 12 of the bush 1 drives the valve 20 and adjusts the degree of opening of the opening 14 with a valve main body 21, then varies a spring constant.

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